

Product datasheet for **RR214695**

B3gat2 (NM_022609) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3gat2 (NM_022609) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3gat2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214695 representing NM_022609 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTCGCGCTGTGCAACCGCTTCTTCATCCTCCTGCCCTGGATCCTGATCGTCATCATCATGTTGG
ACGTGGACCCCCGAGGCCCGGCCCACTCACTTCCCGACCTACTTCTCTCCGCATACAGTGGGCTG
CGGGGTTCCCGAGTCCCGCTCCGACGGAGCAGCCCCGGGCGTGACGCTGCGGAGAAGCGAAGAGTCT
CGGCCTCAGCTGCAGCCGAGCCGCGCTTGCCACCATCTATGCCATCACACCCACCTACAGTCGCCCGG
TGAGAAAAGCCGAGCTCACCCGCTGGCCAACACCTTCCGCCAGGTGGCGCAGTTGCACTGGATCCTGGT
GGAGGACCGGGCAGCGCAGCGAGCTGGTGAGCAGTTCTTAGCTCGGGCCGGGCTGCCAACACGCAC
CTGCATGTGCCACGCCGCGGCGCTACAAGCGACCGTGGCTGCCGCGGCCACCGAACAGCGCAACGCGG
GCCTCGCTGGCTGCGCCAGAGGACCAGCATCAGAGCGCGCAACCCGGCGTGCTTCTTCGCCGACGA
CGACAACAGTACAGTCTGGAGCTTCCAGGAGATGAGAACCACCGCAAGTTTCTGTCTGGCCCGTG
GGCCTAGTTGGTGGGCGACGCTATGAACGTCCATTGGTGAAAAATGGCAAAGTTGTTGGCTGGTACCCG
GATGGAGAGAAGACAGGCCTTTTCCATCGACATGGCTGGATTTGCTGTGAGTCTGCAAGTCATCTTGT
CAATCCGAAAGCTGTATTTAAGCGCCGCGATCCAGCCAGGGATGCAGGAATCTGACTTTCTAAAGCAG
ATCACAACAGTTGACGAAGTGAACCAAAAGCTAACAAGTGCACCAAGGTTCTCGTGTGGCACACTCGGA
CAGAGAAGGTCATCTAGCCAATGAGCCAAAGTACCACATGGACACAGTGAACATCGAGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214695 representing NM_022609
 Red=Cloning site Green=Tags(s)

MKSALCNRFFILLPWILIVIIMLDVDPRRPAPQLTSRPYFSPHTVGGGSRVPLRRSSPRDAAEKRNES
 RPQLQPEPRLPTIYAITPTYSRPVQKAELTRLANTFRQVAQLHWILVEDRATRSELVSSFLARAGLPNTH
 LHVPTPRRYKRPWLPRATEQRNAGLAWLRQRHQHQAQPGVLFADDNTYSLELFQEMRTTRKVSVWPV
 GLVGGRRYERPLVKNGKVVGWYTGWREDRPF AIDMAGFAVSLQVILSNPKAVFKRRGSQPMQESDFLKQ
 ITTVDELEPKANNCTKVLVWHTRTEKVNLANEPKYHMDTVNIEV

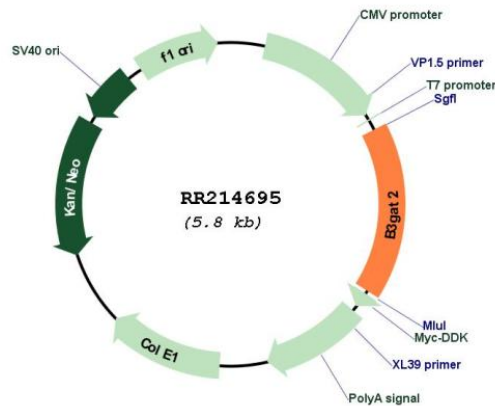
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_022609

ORF Size:	972 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_022609.2 , NP_072131.1
RefSeq Size:	1996 bp
RefSeq ORF:	975 bp
Locus ID:	64544
UniProt ID:	Q9Z137
Cytogenetics:	9q13
MW:	37.2 kDa
Gene Summary:	Involved in the biosynthesis of L2/HNK-1 carbohydrate epitope on both glycolipids and glycoproteins. Substrates include asialo-orosomuroid (ASOR), paragloboside (lacto-N-neotetraosylceramide), Gal-beta-1,4-GlcNAc-beta-1,3-Gal-beta-1,4-Glc-pyridylamine and Gal-beta-1,3-GlcNAc-beta-1,3-Gal-beta-1,4-Glc-pyridylamine.[UniProtKB/Swiss-Prot Function]